## ATENT COOPERATION TR' TY

TERNATIONAL SEARCHING AUTHORITY To:  see form PCT/ISA/220				PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	see form PCT/ISA210 (second sheet)
	icant's or agent's file form PCT/ISA/2	20	elete eletem (m. 111 manus les constitutes 111 m	FOR FURTHER ACTION See paragraph 2 below	
	лаtional application I/US2004/00675	No 19	International filing dat 05.03.2004	e (day/monthlyear)	Priority date (day/month/year) 06.03.2003
	national Patent Clas	sification (IPC) o	or both national classificat	ion and IPC	manufacture of the second of t
	icant				
QU.	ALCOMM INCO	RPORATED			
		Lack of unity Reasoned st applicability; Certain docu Certain defec Certain obse	hment of opinion with n of invention atement under Rule 43 citations and explanati	bis.1(a)(i) with regard ons supporting such a application	intive step and industrial applicability  If to novelly, invertive step or industrial statement
2.	FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the international Preliminary Examining Authority (*IPEA*). However, this does not apply where the applicant offices an Authority other than this one to be the IPEA and the chosen IPEA has notified the strength of the considered. Authority will not be so considered. Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of maling of Form PCTASA220 or before the expiration of 22 months from the priority date, whichever expires flater.				
3.			Form PCTASA/220.		

Name and mailing address of the ISA:

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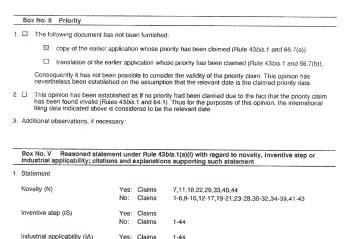


## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/006759

	Box I	lo, I Basis of the opinion			
1.	With the la	egard to the language, this opinion has been established on the basis of the international application in nguage in which it was field, unless otherwise indicated under this item.			
	18	his opinion has been established on the basis of a translation from the original language into the following included—, which is the language of a translation furnished for the purposes of international search inder Fulse 12.3 and 23.10pt.			
2.	With r	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a. type of material:				
		a sequence listing			
		table(s) related to the sequence listing			
	b format of material:				
		in written format			
		in computer readable form			
	c. time	of filing/furnishing:			
		contained in the international application as filed.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority for the purposes of search.			
3.	n	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional pipes is identical to that in the application as filed or does not go beyond the application as filed, as proprietale, were furnished.			

4. Additional comments:



1-44

No: Claims

2. Citations and explanations

see separate sheet

## Re Item V

Reasoned statement under Rule 43bis.1(a)(I), with regard to novelty, inventive step or industrial activity; citations and explanations supporting such statement

- 1. Reference is made to the following document:
  - D1: OGUZ SUNAY M ET AL: "Provision of variable data rates in third generation wideband DS CDMA systems" WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, 1999. WCNC. 1999 IEEE NEW ORLEANS, LA, USA 21-24 SEPT. 1999, PISCATAWAY, NJ, USA,IEEE, US, 21 September 1999 (1999-09-21), pages 505-509, XP010353838 ISBN: 0-7803-5668-3
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 12, 23 and 34 is not new in the sense of Article 33(2) PCT.
- 2.1 Document D1 discloses the subject-matter of claim 1 (fig. 2; page 506, right-hand col., parag. B; page 509, left-hand col.):
  - A transmitter (fig. 2) operable to communicate with a receiver via a wireless communication channel, wherein the transmitter comprises:
  - a processing subsystem (fig. 2, blocks before RF modulation); and
  - a transmitter subsystem (fig. 2, RF modulation) coupled to the processing subsystem;
  - wherein the processing subsystem is configured to cover an initial data stream (fig. 2, information signat) to be transmitted on a first wireless communication channel with at least two different spreading codes (fig. 2, parallel spreading blocks); and wherein the transmitter subsystem is configured to transmit a resulting final data stream on a first wireless communication channel (fig. 2, wireless channel).
- 2.2 A similar reasoning as in paragraph 2.1 applies to claim 23 which represents the same subject-matter as claim 1 under a different category.
- 2.3 Document 01 discloses the subject-matter of claim 12 (fig. 2; page 506, right-hand

col., parag. B; page 509, left-hand col.):

A receiver (page 509, left-hand col.) operable to communicate with a transmitter via a wireless communication channel, wherein the transmitter comorises:

- a processing subsystem (implicit before RAKE receivers); and
- a receiver subsystem (RAKE receivers) coupled to the processing subsystem:
- wherein the receiver subsystem is configured to receive an initial data stream (RF modulated signal) via a first wireless communication channel (wireless channel); and
- wherein the processing subsystem is configured to decode the initial data stream using at least two different spreading codes (M parallel RAKE receivers).
- 2.4 A similar reasoning as in paragraph 2.3 applies to claim 34 which represents the same subject-matter as claim 12 under a different category.
- The following dependent claims do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows:
- 3.1 The additional features of claims 2-6, 8-10, 16, 17, 19-21, 24-28, 30-32, 38, 39, and 41-43 are present in D1 (citations in paragraph 2.1).
- 3.2 The additional features of claims 13-15, and 35-37 are implicitly present in D1 (citations in paragraph 2.1).
- 3.3 The additional features of claims 11, 22, 33, and 44 appear to represent a juxtaposition of known features not producing any non-obvious inter-relationship.
- 3.4 The additional features of claims 7, 18, 29, and 40 are merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.